DIFFERENCE BETWEEN BUC AND LNB

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A BUC (Block Up converter) is used in a satellite communications UP LINK A LNB (Low Noise Block Converter) is used in a satellite communications DOWN LINK

BUC (Block Up converter) It converts the radio signals from a lower frequency to higher to transmit to the satellite. On the other hand LNB (Low Noise Block Converter) collects the radio waves from the satellite and converts them to a signal sent to the modem at the endpoint through a cable. The common thing between them is that both of these are used in VSAT (Very Small Aperture Terminal) SATCOM transmission systems.

Let's learn about a few more differences between them –

Block Up converter

• The first application of BUC is Frequency conversion. It converts lower L band frequency received to the higher frequency.

• It boosts the amplitude level of the RF signal that has been converted, and the process is called amplification.

• It costs less if used in the place of two separate modules, i.e. up converter and amplifier.

• It is placed between modulator output (satellite modem) and antenna.

Low Noise Block Converter

• The first function of LNB is to avoid distortion. It maintains CNR (carrier to Noise Ratio) while boosting the amplitude level of received RF signal.

• When it comes to Frequency conversion, it works opposite BUC. It converts higher frequency to lower L Band.

• It can be used in place of two separate modules, i.e. LNA and down converter which makes it cost less and easy to install.

• It is placed between the antenna input and the satellite modem.

Although both are used in VSAT, they have different functions to perform. You can find a wide range of **Block Up converter** and Low Noise Block Converter on the Raditek web site **www.raditek.com**

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